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UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

October Field Program, 1911.

This program of field work and assignments in the Forest Service is issued quarterly on the 15th day of July, October, January, and April, and is for the exclusive use of members of the Service and cooperating bureaus. The names of members whose assignments are not yet fixed are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

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IDAHO.

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- Nebo.**—DAN S. PACK, forest supervisor, Nephi (WU-WF).
- Pocatello.**—See Idaho.
- Powell.**—GEO. H. BARNEY, forest supervisor, Escalante (WU-WF).
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WYOMING.

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- Caribou.**—See Idaho.
- Targhee.**—See Idaho.
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DISTRICT 5.

California and southwestern Nevada. Office, First National Bank Building, San Francisco, Cal.

COERT DUBOIS, district forester; WALTER L. HUBER, district engineer; CLARENCE WILEY, inspector of records.

LAW.—Office of the Solicitor (Forest Service branch). H. P. DECHANT, assistant to the solicitor, in charge.

ACCOUNTS.—F. C. THOMPSON, district fiscal agent.

OPERATION.—ROY HEADLEY, assistant district forester.

MAINTENANCE.—F. H. SMITH.

SILVICULTURE.—T. D. WOODBURY, assistant district forester; J. C. ELLIOTT, lumberman.

SILVICS.—J. A. MITCHELL.

Consulting pathologist—E. P. Meinecke, Mineral, Cal.

GRAZING.—JOHN H. HATTON, assistant district forester.

LANDS.—L. A. BARRETT, assistant district forester.

PRODUCTS.—C. STOWELL SMITH, assistant district forester, in charge; C. A. Kupfer, A. K. Armstrong, San Francisco, Cal.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P-WF); Ernest B. Long, deputy forest supervisor; Jesse W. Hough, forest assistant; Serope Y. Parnay, forest planting assistant; San Bernardino.

California.—D. P. GODWIN, forest supervisor, Willows (P-WF); A. W. Bartlett, deputy forest supervisor; S. W. Strothman, forest assistant.

Cleveland.—H. A. E. MARSHALL, forest supervisor, San Diego (WU, P-WF); Percy L. Day, deputy forest supervisor.

Eldorado.—EVAN W. KELLEY, forest supervisor, Placerville (WU-WF); George W. Lyons, forest assistant.

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU-WF).

Kern.—W. J. RUSHING, forest supervisor, Bakersfield (WU-WF); Jas. O. Morrow, deputy forest supervisor; Neal T. Childs, forest assistant.

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU-WF); J. R. Hall, deputy forest supervisor; Shirley W. Allen and Douglas K. Noyes, forest assistants.

Lassen.—L. A. H. KLING, forest supervisor, Red Bluff (P-WF); R. H. Boerker, forest assistant.

Modoc.—C. E. RACHFORD, forest supervisor, Alturas (P-WF); Vernon L. Bonner, deputy forest supervisor; Belknap C. Goldsmith, forest assistant.

Mono.—See Nevada.

Monterey.—RAYMOND TYLER, forest supervisor, Salinas, (WU, Soledad, Cal.-WF, Salinas, care Tassajara, Hot Springs stage).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU, Keddie, Cal.-WF); W. G. Durbin, deputy forest supervisor; R. S. Maddox and George R. Orr, forest assistants; Patrick Kennedy and C. H. Ensign, reconnaissance.

Santa Barbara.—WILLIS M. SLOSSON, forest supervisor, Santa Barbara (P-WF); H. G. Merrill, deputy forest supervisor; W. H. Moore, forest assistant.

Sequoia.—ALLAN B. PATTERSON, forest supervisor, Hot Springs, Tulare County (WU via Portersville-WF); W. C. Burton, deputy forest supervisor; S. W. Wynne, forest assistant.

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P-WF); M. R. Tillotson, deputy forest supervisor; Stewart B. Show and Edward I. Kotok, forest assistants; F. L. Rickey, planting assistant; J. E. Elliott, reconnaissance.

Sierra.—P. G. REDINGTON, forest supervisor, Northfork (WU via Fresno-WF, Friant); M. A. Benedict, deputy forest supervisor; Ernest G. Dudley, forest assistant.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU-WF); J. V. Wulff and Louis T. Larsen, forest assistants.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU-WF); M. B. Pratt, deputy forest supervisor; Wm. H. Gallaher and K. Mills, forest assistants.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU-WF); J. D. Coffman, deputy forest supervisor; Ernest V. Jotter and Howard DeForest, forest assistants.

NEVADA.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU-WF); T. C. West, deputy forest supervisor; Rex King, forest assistant.

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; W. E. HERRING, district engineer; R. E. BENEDICT, forest inspector.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge; D. F. MCGOWAN, assistant to the solicitor.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester.

MAINTENANCE.—SHIRLEY BUCK.

SILVICULTURE.—F. E. AMES, assistant district forester; W. T. ANDREWS, lumberman.

PLANTING.—J. F. KÜMMEL.

SILVICS.—T. T. MUNGER.

Studies, E. J. Hanzlik, Portland; G. A. Bright, Heppner, Oreg.

GRAZING.—T. P. MACKENZIE, assistant district forester.

LANDS.—C. J. BUCK, assistant district forester; G. F. MEAD, law examiner.

Land Classification.—G. W. Peavy, F. W. Cleator, R. W. Flournoy.

PRODUCTS.—J. B. KNAPP, assistant district forester, in charge; H. B. Oakleaf, C. W. Dunning, J. F. Pernot, Portland, Oreg.; O. P. M. Goss, Seattle, Wash.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Thos. M. Hunt, deputy forest supervisor; Bruce Hoffinan, forest assistant.

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Max Rothkugel, forest assistant.

CALIFORNIA.

Crater.—See Oregon.

Siskiyou.—See Oregon.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P-WF); F. B. Kellogg, deputy forest supervisor; B. Frank Heintzleman, forest assistant.

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P-WF); S. S. Swenning, deputy forest supervisor; H. D. Foster and William E. White, forest assistants; E. A. Braniff, reconnaissance.

- Deschutes.**—J. ROY HARVEY, forest supervisor, Bend (WU, PT & T-Ad via Opal City, GN via Opal City).
- Fremont.**—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev.-WF); Norman G. Jacobson, forest assistant; Nelson J. Billings, grazing assistant.
- Malheur.**—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker City-Am, WF via Baker City); D. B. Reynolds, deputy forest supervisor; Herbert J. Miles, forest assistant.
- Minam.**—H. W. HARRIS, forest supervisor, Wallowa (WU-Am); S. A. Brown, deputy forest supervisor.
- Ochoco.**—HOMER ROSS, forest supervisor, Prineville (PT & T-Am); Ephraim Barnes, deputy forest supervisor.
- Oregon.**—T. H. SIERRARD, forest supervisor, Portland (WU, P-Am, WF, N); Ralph S. Shelley, deputy forest supervisor; W. B. Osborne, forest assistant.
- Paulina.**—W. W. CRYDER, forest supervisor, Crescent (WU, PT & T-Ad, GN via Opal City); Carl Ewing, reconnaissance.
- Santiam.**—N. F. MACDUFF, forest supervisor, Albany (WU-WF); E. B. Starr, forest assistant.
- Siskiyou.**—R. L. FROMME, forest supervisor, Grants Pass (WU, P-WF); Allen Hodgson, deputy forest supervisor; H. Haefner, forest assistant.
- Siuslaw.**—A. E. COHOON, forest supervisor, Eugene (WU, P-WF); David E. Fitton, deputy forest supervisor.
- Umatilla.**—HUGH B. RANKIN, forest supervisor, Heppner (WU-Am); George A. Bright, forest assistant.
- Umpqua.**—S. C. BARTRUM, forest supervisor, Roseburg (WU, P-WF); E. H. McDaniels, deputy forest supervisor; Arthur Kerr, forest assistant.
- Wallowa.**—H. W. HARRIS, forest supervisor, Wallowa (WU-Am); Charles Black, grazing assistant; Robie M. Evans, forest assistant.
- Wenaha.**—See Washington.
- Whitman.**—HENRY IRELAND, forest supervisor, Sumpter (WU via Baker City-Am, WF via Baker City); M. L. Merritt, deputy forest supervisor; Harold P. Gilkey, forest assistant; Edwin C. Erickson, scaler.

WASHINGTON.

- Chelan.**—G. W. MILHAM, forest supervisor, Chelan (PT & T-Am, GN via Wenatchee); H. M. Coan, forest assistant.
- Columbia.**—H. O. STABLER, forest supervisor, Portland, Oreg. (WU, P-Am, WF, N); W. W. G. Hastings, deputy forest supervisor; A. R. Wilcox and Lage Wernstedt, forest assistants.
- Colville.**—C. C. REID, forest supervisor, Republic (WU, P-Am, GN); F. W. Cleator, deputy forest supervisor; Edward W. Headsten, forest assistant.
- Okanogan.**—H. M. HALE, forest supervisor, Okanogan; V. V. Harpham, deputy forest supervisor.
- Olympic.**—P. S. LOVEJOY, forest supervisor, Olympia (WU-Am, GN, N); A. A. Parker, deputy forest supervisor; William H. Gibbons, forest assistant.
- Rainier.**—G. F. ALLEN, forest supervisor, Tacoma (WU, P-Am, N); P. T. Harris, deputy forest supervisor; E. J. Fenby, forest assistant.

Snoqualmie.—B. P. KIRKLAND, forest supervisor, Seattle (WU, P-N, GN, WF); Lewis A. Treen, jr., deputy forest supervisor; Walter H. Leve and Lawrence B. Pagter, forest assistants.

Washington.—C. H. PARK, forest supervisor, Bellingham (WU, P-Am, GN, N); F. H. Brundage, deputy forest supervisor; Herman M. Johnson, forest assistant.

Wenaha.—J. M. SCHMITZ, forest supervisor, Walla Walla (WU-Am, N).

Wenatchee.—A. H. SYLVESTER, forest supervisor, Leavenworth (WU-Am, GN); C. P. Willis, forest assistant.

SERVICE CHANGES.

APPOINTED.

SILVICULTURE.—State cooperation: Collaborators—E. C. Hirst, A. W. Hawes, William T. Cox, F. E. Elliott, F. E. Mae, C. R. Pettis, C. P. Wilber, S. N. Spring, E. M. Griffith, F. W. Rane.

PRODUCTS.—Laboratory: Assistant engineers in forest products—Allison Craig, Charles T. Leigh, Everett P. Peterson, Harold R. Winter; Jacob M. Johlin, jr., assistant chemist in forest products; Homer Cloukey, scientific assistant in forest products. Wood utilization: Clark W. Gould, agent. Washington office: Jesse C. Nellis, statistician in forest products.

APPALACHIAN.—Forest assistants: Robert W. Shields, Harold L. Russell, Carrington Macfarlane.

DISTRICT 3.—Operation: Quiney Randles, forest assistant, Coconino National Forest; H. Basil Wales, forest assistant, Datil National Forest; Ernest C. Pegg, forest assistant, Jemez National Forest; Frank J. Mosher, forest assistant, Pecos National Forest. Silviculture: Albert E. Moss and John W. Speneer, forest assistants, Carson National Forest; William C. Koepke, forest assistant, Jemez National Forest; Otto F. Swenson, forest assistant, Pecos National Forest.

DISTRICT 5.—Silviculture: Forest assistants—Douglas K. Noyes, Klamath National Forest; Edward I. Kotok, Shasta National Forest; Jesse W. Hough, Angeles National Forest; R. H. Boerker, Lassen National Forest; Neal T. Childs, Kern National Forest; George W. Lyons, Eldorado National Forest; K. Mills, Tahoe National Forest; Howard De Forest, Trinity National Forest.

DISTRICT 6.—Operation: B. Frank Heintzleman, forest assistant, Cascade National Forest; Lawrence B. Pagter, forest assistant, Snoqualmie National Forest.

RESTORED TO THE ROLLS.

DISTRICT 1.—Operation: David G. Kinney, forest supervisor, Missoula National Forest.

DISTRICT 2.—Operation: Stanley B. Hall, forest assistant, Gunnison National Forest.

DISTRICT 3.—Operation: Oliver F. Bishop, forest assistant, Carson National Forest.

DISTRICT 6.—Silviculture: Edward J. Hanslik, forest assistant, district office.

CHANGE IN DESIGNATION.

SILVICULTURE.—State cooperation: J. Harold Foster, from assistant chief to forest assistant.

DISTRICT 3.—Silviculture: Robert L. Rogers, from forest supervisor to forest examiner, district office.

DISTRICT 6.—Operation: Allen H. Hodgson, forest assistant to deputy forest supervisor, Siskiyou National Forest.

TRANSFERRED.

APPALACHIAN.—Forest assistants: Charles E. Beaumont, Walter A. Hopson, Jay J. Fity, from district 2; forest assistants, Loren L. Bishop, E. P. Bushnell, from district 5; forest assistant, Percy T. Smith, from district 6.

DISTRICT 1.—Operation: Wilford B. Willey, forest assistant, from Clearwater National Forest to Selway National Forest; Donald R. Brewster, forest assistant, from St. Joe National Forest to Priest River Experiment Station.

DISTRICT 2.—Operation: Seward D. Smith, forest assistant, from Black Hills National Forest to district office.

DISTRICT 3.—Operation: Raymond E. Marsh, forest assistant, from Alamo National Forest to Carson National Forest.

DISTRICT 4.—District forester: Joseph P. Martin, assistant district forester, from district 1 to district engineer, district 4. Operation: Lawrence J. Phelan, deputy forest supervisor, Wyoming National Forest to Payette National Forest; forest assistants—James B. Saxton, Palisade National Forest to Targhee National Forest; Irwin W. Cook, Salmon National Forest to Teton National Forest.

DISTRICT 6.—Operation: Allen H. Hodgson, forest assistant, district 5 to district 6, Siskiyou National Forest.

PROMOTED IN RANK.

DISTRICT 1.—Operation: Arthur H. Abbott, from forest ranger to deputy forest supervisor, Beartooth National Forest; Robert P. McLaughlin, from deputy forest supervisor to forest supervisor, Blackfeet National Forest; Lewis C. Stockdale, from assistant forest ranger to deputy forest supervisor, Deerlodge National Forest; Samuel R. Hays, from assistant forest ranger to deputy forest supervisor, Gallatin National Forest; Meyer H. Wolff, from forest assistant to deputy forest supervisor, Kaniksu National Forest; Joseph D. Warner, from deputy forest supervisor, Helena National Forest, to forest supervisor, Absaroka National Forest; Lewis T. Morgan, from forest ranger, Jefferson National Forest, to deputy forest supervisor, Helena National Forest.

DISTRICT 3.—Operation: Frank E. Schneider, from forest clerk to chief of maintenance, district office; Sidney A. Chappel, from deputy forest supervisor to forest supervisor, Arkansas National Forest.

DISTRICT 4.—Operation: Frank J. Ryder, from deputy forest supervisor, Payette National Forest, to forest supervisor, Palisade National Forest; Lucas W. Hastings, from forest ranger to deputy forest supervisor, Palisade National Forest.

DISTRICT 5.—Coert Du Bois, from associate district forester to district forester. Operation: Francis P. Porcher, from assistant forest ranger to deputy forest supervisor, Lassen National Forest.

LEAVE WITHOUT PAY.

FORESTER.—Dendrology: Harry P. Brown, xylotomist.

PRODUCTS.—Laboratory: Simon Kirsch, expert; Louis Witt, assistant engineer in forest products.

DISTRICT 2.—Operation: John C. De Camp, forest assistant, Durango National Forest; Leigh J. Young, forest assistant, Medicine Bow National Forest.

DISTRICT 3.—Silviculture: Nelson L. Le Grand, lumberman, and John H. Allison, forest examiner, district office.

DISTRICT 4.—Operation: Charles L. Smith, forest supervisor, Palisade National Forest; Lincoln Crowell, deputy forest supervisor, Sevier National Forest; forest assistants, Robert Rosenbluth, Nevada National Forest, and William W. Twaddell, jr., Teton National Forest.

DISTRICT 5.—Silviculture: James B. Berry, forest assistant, Inyo National Forest.

DISTRICT 6.—District forester: Charles S. Judd, assistant district forester, district office.

FURLOUGHED.

DISTRICT 2.—Silviculture: John E. Elliott, lumberman.

DISTRICT 5.—Operation: Willis M. Slosson, forest supervisor, Santa Barbara National Forest.

RESIGNED.

APPALACHIAN.—A. K. Chittenden, forest inspector.

SILVICULTURE.—Forest management: John S. Ames, forest assistant.

OPERATION.—Geography: Dabney C. Harrison, topographer.

DISTRICT 1.—Operation: Frederick A. Gaylord, forest assistant, Pend Oreille National Forest; V. Gifford Lantry, forest supervisor Absaroka National Forest. Silviculture: John S. Baird, lumberman.

DISTRICT 2.—Operation: John Murdoch, jr., forest assistant, Wagon Wheel Gap Experiment Station.

DISTRICT 3.—Grazing: Joseph K. Campbell, assistant district forester.

DISTRICT 5.—F. E. Olmsted, district forester.

DISTRICT 6.—Operation: William A. Langille, forest supervisor, Chugach National Forest; Reginald R. Chaffee, forest assistant, Deschutes National Forest.

APPOINTMENT TERMINATED.

APPALACHIAN.—Ralph C. Bryant, expert.

DISTRICT 2.—Operation: Thomas C. Hatton, deputy forest supervisor, Soper National Forest.

DISMISSED.

DISTRICT 1.—Operation: Willard N. Bradish, forest ranger, Minnesota National Forest.

With deep regret announcement is made of the following deaths: John P. Murray, assistant forest ranger, Hayden National Forest, August 3; Charles H. Devincy, assistant forest ranger, on the Teton National Forest, July 8; Henry Louis Boldenweek, deputy forest supervisor, Lassen National Forest, September 6; C. B. Hyde, a temporary fire fighter on the Cleveland National Forest, who was killed while fighting fire September 26; Herbert L. Hurd, deputy forest supervisor, Rainier National Forest, who was drowned in the Nisqually River in the latter part of June.

SERVICE NOTES FOR OCTOBER.

These notes contain instructions and necessary information for forest officers, and will therefore be carefully read and kept on file for reference.

LAW.

OFFICE OF THE SOLICITOR.

Law Cases in District 1—

Criminal prosecution was instituted before United States commissioners as follows: Earl Bush, E. Marott, L. E. Woodworth, and H. M. Latham, fire trespass upon the Deerlodge National Forest August 2; held to the grand jury.

UNITED STATES *v.* STACK-GIBBS LUMBER CO. AND SHOSHONE LUMBER CO.—The Stack-Gibbs Lumber Co., acting under a so-called contract of sale from the Shoshone Lumber Co., entered upon certain lands within the boundary of the Coeur d'Alene National Forest embraced in unapproved Northern Pacific Railroad selections (Mount Ranier scrip) and began to cut and remove the timber therefrom. The case was reported to the Department of Justice for appropriate action. The United States attorney for the district of Idaho instituted proceedings in the United States circuit court for the purpose of securing an injunction. Subsequently, with the approval of the Attorney General, he accepted a bond in the sum of \$50,000 executed by both corporations and conditioned to pay the United States for all timber cut from lands included in any selections which might hereafter be rejected by the Interior Department. In consideration of the filing of this bond, the suit in equity was continued for one year. This action was taken by the Department of Justice because of the fact that the timber was entirely fire-killed and rapidly deteriorating in value. Unless the timber should be cut and removed prior to the approval of the scrip selections, a large proportion of it would have been an utter loss to the Government and all other parties interested.

Law Cases in District 3—

Cases reported to the Department of Justice were settled by payments as follows: Stephen F. Spurgeon, grazing trespass upon the Gila National Forest, \$247.50 actual damages, \$50 punitive damages, and \$50 costs; E. L. Neatherlin, grazing trespass upon the Alamo National Forest, \$133.20; Wayne Bros., grazing trespass upon the Alamo National Forest, \$225.

Law Cases in District 4—

Suits for the collection of civil damages were decided in favor of the Forest Service as follows: John Henry, fire trespass upon the Palisade National Forest, \$243.93 and costs; O. M. Geary, grazing trespass upon the Sawtooth National Forest, \$147 actual damages, \$100 punitive damages, and \$13 costs; Wm. A. Fletcher, grazing trespass upon the Sawtooth National Forest, \$25 actual damages, \$50 punitive damages, and \$38.20 costs; H. L. Mitchell, grazing trespass upon the Weiser National Forest, \$50 actual damages, and \$14 costs.

Criminal actions were decided in favor of the Forest Service as follows: Cecil D. Ramsey, grazing trespass upon the Sawtooth National Forest, \$20 fine; H. L. Mitchell, grazing trespass upon the Weiser National Forest, \$50 fine and \$7.40 costs; Wm. A. Fletcher, grazing trespass upon the Sawtooth National Forest, \$50 fine and \$7.40 costs.

FINED FOR VIOLATING A STATE LAW.—In the case of Gus Lamson and Charles Dalton, charged with violation of the laws of the State of Utah in having willfully taken down a part of a fence around a ranger station pasture upon the Fillmore National Forest and left the same open, defendants pleaded guilty and were fined \$17.50.

Law Cases in District 6—

Criminal prosecution before United States grand juries resulted as follows: George Filisiano and J. P. Stevens, fire trespass upon the Olympic National Forest, indictment returned September 20; Henry Allen and S. E. Webb, fire trespass upon the Washington National Forest, indictment returned September 20.

Criminal prosecution before United States commissioners resulted as follows: John Smith, fire trespass upon the Ochoco National Forest, held to the grand jury in the sum of \$500.

SENTENCE SUSPENDED ON RECOMMENDATION.—In the case of United States *v.* J. P. Tuley, alias Harrison, reported in the July Field Program, the defendant on July 17, 1911, pleaded guilty to one count of the indictment. Sentence was suspended on recommendation of the United States attorney for the reason that Tuley gave information upon which all three of the cameras stolen by him were recovered, and on account of the fact that he has a wife and two small children who would be the greatest sufferers in case of prison sentence. Action on the other count of the indictment was suspended pending Tuley's good behavior.

CAMPERS FINED FOR UNEXTINGUISHED FIRE.—On August 22 Werner Steiger and Andrew Heiman, boys about 20 years of age, were arrested for building a camp fire and leaving it without it being totally extinguished. On August 23 they pleaded guilty to an information filed by the United States district attorney at Portland and were fined \$10 each. No damage was done to the forest.

OPERATION.

Reimbursement for Maintenance of Horse or Motor—

On August 3 the regulation which was approved by the Secretary in February concerning the ownership, maintenance, and equipment of saddle horses and other animals used by forest officers regularly assigned to field duty was modified by the Secretary to cover, in addition, the maintenance of motor-driven vehicles. This makes it now possible for forest officers in the field who use automobiles and motor cycles in connection with their official duties to receive reimbursement for the cost of operation and maintenance to the same proportion as those officers who use horse transportation. The regulation as it now stands reads as follows:

REGULATION.—Forest officers or employees regularly assigned to field duty may be required to own and equip the saddle and other animals necessary to carry on their official duties. Feed for animals so used, owned by forest officers or employees, will be furnished in whole or in part, as may be deemed equitable by the Forester, either by purchase or by growing such feed on national-forest lands. When a

motor-driven vehicle, such as a motor cycle or an automobile, is used by a forest officer in lieu of saddle horses or other animals in the performance of his official duties, gasoline and oil for motor cycles or automobiles so used will be furnished in whole or in part, as may be deemed equitable by the Forester.

Secretary Letters Recommending Eliminations and Release—

Secretary letters recommending the release of lands from temporary withdrawal should, in all cases, contain a brief, specific statement of the reason why the land was not desired for National Forest purposes. In all Secretary letters referring to eliminations or releases, a definite statement should also be inserted as to whether examination by forest officers discloses the fact that the areas embrace valuable power sites. If such information can not be given, the letter should so state. (See OB letter Aug. 8, 1911.)

Proclamation Diagrams and Topographic Data—

After September 15, 1911, all proclamation diagrams will be made in the Washington office. When time permits, advance blue prints will be submitted to the district forester for comment and correction before being lithographed. It is not expected that the drafting work in the district offices will be reduced by this change in procedure. By being relieved of this work it is hoped the district geographers will be able to extend additional assistance to supervisors in the preparation of corrected atlas sheets and the collection of new data, which are to be submitted annually. It is desired that the district forester submit, with his recommendations for boundary changes, any new data not previously forwarded to Washington, in order that they may be incorporated in the new diagram. (See OB letter Aug. 16, 1911.)

New Photographic Notebook—

After October 15 a new photographic notebook will be issued with films, or upon requisition, and will be expendable property. Each book will contain the instructions for photographic work in the field, districts, and at Washington. There will be six Forms 166, each for the record of an exposure, and six duplicate detachable forms, on which carbon records of the exposures may be made and retained by the author.

Forest Service Paper Scales—

The property clerk will issue on requisition, as expendable property, one or more sheets of bristol board, each engraved with four scales made from copper plates. These are 1 inch, 2 inches, 4 inches, and 8 inches to the mile.

Forest Service Standard Level Rod—

The following has been adopted for the Forest Service:

A self-reading "Philadelphia" rod, two-piece, 7 feet, sliding out to 13 feet, hardwood, divided by red figures into feet, divided by black figures and lines into tenths, and by shorter black lines into half-tenths and hundredths, round target with vernier reading to thousandths, and with a screw clamp or lever clamp, as desired. This description applies to the rods known as Dietzgen No. 5807, Kenffel & Esser No. 6256, and Gurley No. 500.

Forest Service Standard Stadia Pattern—

The following has been adopted:

Stadia rods will not be furnished, but will be made in the field when required, as in the Geological Survey. The standard pattern will be the same as that of the

Geological Survey, consisting of red and black triangles upon a white background. Sheets will be printed and will be issued by the property clerk, as expendable property, containing the strips required for a rod 12 feet long, and with an additional 3 feet, which may be used either to make a longer rod or to repair any portion of the pattern which has become injured. Each sheet will contain printed directions for making the rod, briefly as follows:

A strip of light wood 12 feet long, $3\frac{1}{2}$ inches wide, three-fourths of an inch thick, is given a coat of shellac or varnish on its face and the strips of pattern are cut out and laid upon it dry. This is to avoid any change of scale in the paper, due to moistening. The dry paper should be quickly pressed flat upon the moist surface, matched end to end, and when dry its upper surface may be given a coat of shellac or varnish to protect it from the weather.

This will avoid the shipments of expensive and nonexpendable stadia rods and the accountability for them at the close of a survey. They can be made as often as required and may be thrown away when no longer needed.

It is believed that these two rods will meet all of the demands in the Forest Service for level and stadia work. In an emergency either rod can be used for either purpose, the level rod being best adapted for precise work or short sights and the stadia for rough and quick work. The question of dividing the stadia rod into two or more pieces and the method of joining them may be left to the fancy or ingenuity of the surveyor. A strap hinge for folding the rod can be purchased at any hardware store, as can also the bolts or hasps, which others might prefer for a lap joint. A cleat about 2 feet long and the same size as the rod will usually be found necessary to make the joint rigid.

Loose Leaf Covers—

The property clerk will issue to supervisors, on requisition, loose covers 21 by 18 inches, binding on the 18-inch side, for holding township plats. Also loose leaf covers 18 by 21 inches, binding on the 21-inch side, for standard atlas sheets. It will be necessary to preserve township plats with the greatest care, as it will not be possible in the majority of cases to obtain duplicates.

Forest Atlas Legend Crayons—

The property clerk has installed a machine for printing the Forest Atlas legend upon each colored crayon, and it is expected that this improved method of marking will lead to greater accuracy in the use of colors on maps. There have always been some uncertainties, due to the fact that many men are not good judges of color, and also because the makers of colored crayons change the formulæ for mixing colors or use different grades of pigment. It has also been found in the case of some colors that they change materially with age. Under this new method of marking it will be possible for the property clerk to obtain in each case the best grade of a standard color, and, disregarding the manufacturer's number, print the atlas legend upon the pencil. Thus, the bright yellow crayon will be marked "Grassland, barren, etc.," and "Open for sheep and goats only."

Standard Scale Diagrams and Maps—

The proclamation diagrams were originally intended to be only a graphic representation of the land, by townships and subdivisions, to be included within the boundaries of a National Forest. It was found, however, that they serve, though

incompletely, a number of purposes, and that it was desirable to show upon them a certain amount of drainage and other data. Wherever atlas sheets had been corrected or good data were available, it has been possible to prepare diagrams which fill, to some degree, the demand for forest maps. The scale of 4 miles to 1 inch was adopted with a standard style of drafting and titles. In some areas it has been possible to make a general layout, covering a group of forests, upon a polyconic projection, thus taking a step toward map making according to the most approved methods.

The proclamation diagrams which have been prepared upon the 4-miles-to-the-inch scale are as follows:

Alamo.	Inyo.	Santa Rosa.
Arkansas.	Kern.	Sioux.
Bonneville.	Malheur.	Stanislaus.
Bridger.	Mono.	Toiyabe.
Cascade.	Minam.	Uinta.
Chelan.	Ochoco.	Umatilla.
Datil.	Okanogan.	Wallowa.
Deschutes.	Oregon.	Wenaha.
Fishlake.	Ozark.	Whitman.
Fremont.	Pend Oreille.	
Humboldt (pt. 1).	San Isabel.	

The proclamation diagrams or maps for other purposes which have been or are being prepared on the 4-miles-to-the-inch scale and on the projection are as follows:

Absaroka.	Durango.	Paulina.
Beartooth.	Flathead.	Payette.
Beaverhead.	Fremont.	Rio Grande.
Bitterroot.	Gallatin.	San Juan.
Blackfeet.	Helena.	Santiam.
Boise.	Idaho.	Sawtooth.
Bonneville.	Jefferson.	Selway.
Bridger.	Klamath.	Sevier.
Cabinet.	Kootenai.	Shasta.
Cache.	La Sal.	Siskiyou.
Caribou.	Lewis and Clark.	St. Joe.
Cascade.	Lolo.	Teton.
Challis.	Madison.	Trinity.
Clearwater.	Missoula.	Umpqua.
Couer d'Alene.	Modoc.	Washakie.
Crater.	Montezuma.	Weiser.
Deerlodge.	Nezperce.	Wyoming.
Deschutes.	Oregon.	

When errors or omissions are noted upon proclamation diagrams or upon other maps, they should be corrected in the same manner as atlas sheets—that is, with red ink and marginal notes—and should be dated and signed by the person making the corrections. Letter writing regarding corrections should be avoided, as there is too

much opportunity for misunderstanding, and frequently the letters are not convincing. If a forest officer knows that a map is wrong, he should be able to indicate the error and his proposed correction upon the map.

LANDS.

Claims, Settlement, and Administrative Sites—

The Secretary of Agriculture has approved regulations and instructions thereunder relating to claims, settlement, and administrative sites. These are being printed and will be ready for distribution at an early date.

Trespass Regulations Approved—

On August 5 the Secretary of Agriculture approved regulations and instructions thereunder relating to trespass upon National Forests. They have been printed and are ready for distribution.

SERVICE PUBLICATIONS ISSUED.

Bulletin 75. California Tanbark Oak.

Bulletin 85. Chaparral.

Bulletin 86. Windbreaks: Their Influence and Value.

Bulletin 90. Relation of Light Chipping to the Commercial Yield of Naval Stores.

Bulletin 91. Grazing and Floods: A Study of Conditions in the Manti National Forest.

Bulletin 94. Scrub Pine.

Bulletin 97. Coyote-Proof Inclosures in Connection with Range Lambing Grounds.

Circular 185. "Colombian Mahogany": Its Characteristics and Its Use as a Substitute for True Mahogany.

Circular 186. Consumption of Preservatives and Quantity of Wood Treated in the United States in 1910.

National Forest Manual—Trespass.

Unnumbered Circular—National Forest Fire-Protection Plans.

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